

USER MANUAL
ATTS-512560
LFP Battery



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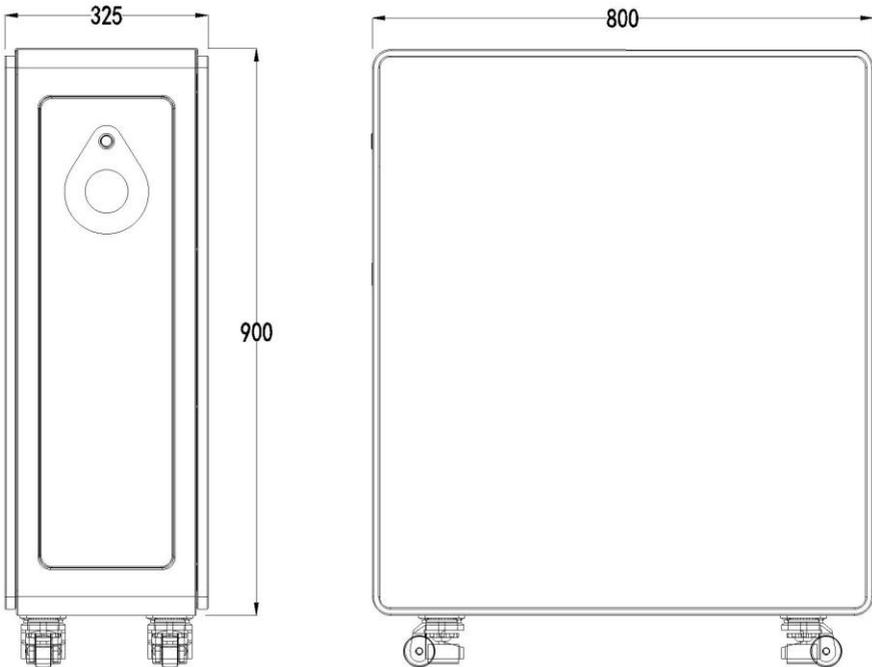


1 Product Overview

ATTS-512560 is a 51.2V560Ah floor stand Lithium Iron Phosphate battery.

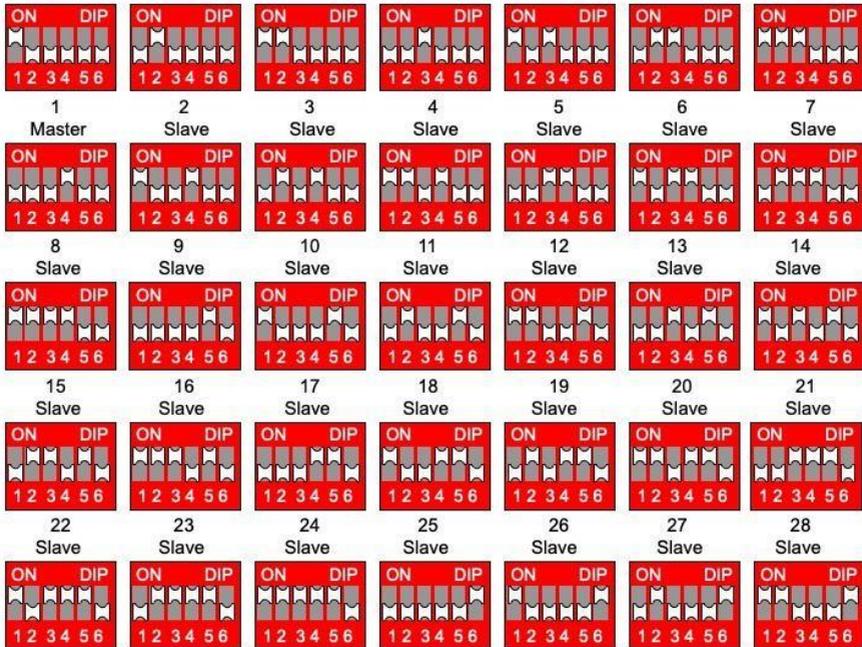
Note: **ATTS-512560 is NOT suitable for life-sustaining medical devices.**

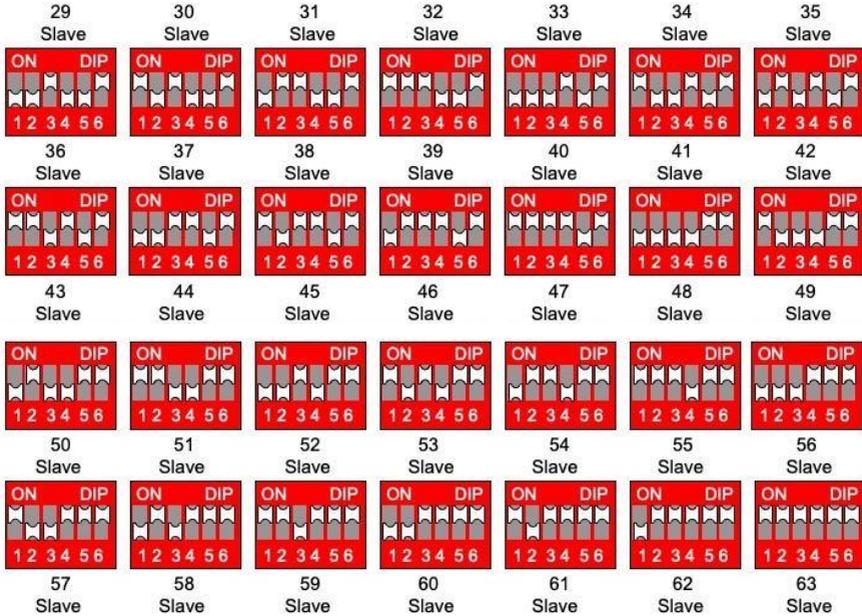
1.1 Appearance



1.2 Switch, LCD, LED & Communication Port

1.2.1 DIP Switch





1.2.2 Switch ON/OFF

1、 Switch ON

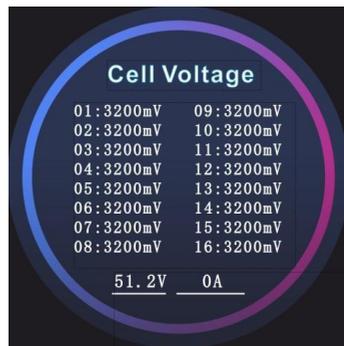
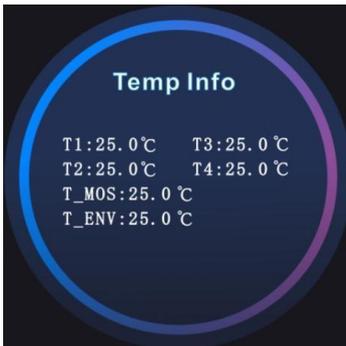
For single ATTS-512560, set DIP switch to 1, then switch ON POWER button. For multiple ATTS-512560 connected in parallel, set DIP switch according to 1.2.1, then switch ON POWER buttons of all batteries.

2、 Switch OFF

Switch OFF POWER button(s) of all batteries.

1.2.3 Color touchscreen

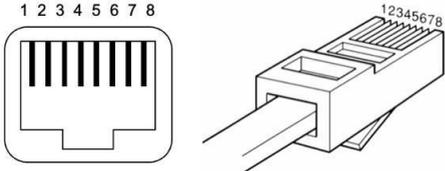
- 1) Swipe the screen to see “SN Info”, “Capacity Info”, “Temp Info”, “Cell Voltage”, “Current Event”, “History Event”, “Set Protocol” & “Display Time”.
- 2) If current protocol is incorrect, tap “CAN” checkbox and select correct protocol.
- 3) If current time is incorrect, tap “Set Time” button and change time then tap “Save” button.



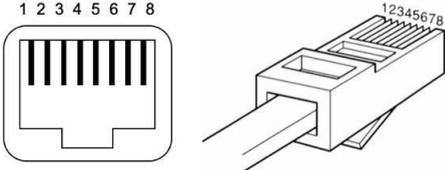
<p>Current Event</p> <p>Alarm: None Protect: None Fault: None</p>	<p>History Event</p> <p>001 04.29 12:00 p0VW ▲ ▼</p>
<p>Set Protocol</p> <p>PYLON CAN <input checked="" type="checkbox"/> RS485 <input checked="" type="checkbox"/></p>	<p>Set Protocol</p> <p>01: PYLON <input checked="" type="checkbox"/> 02: GROWATT <input type="checkbox"/> 03: VICTRON <input type="checkbox"/> 04: SMA <input type="checkbox"/> 05: MUST <input type="checkbox"/> 06: SOFAR <input type="checkbox"/></p>
<p>Display Time</p> <p>2024 - 4 - 29 12:00</p> <p><input type="button" value="Set Time"/></p>	<p>Set Time</p> <p>2024 - 4 - 29 12:00</p> <p><input type="button" value="Save"/> <input type="button" value="Cancel"/></p>

1.2.4 Communication Port Definition

1.2.4.1 CAN/RS485 to PCS

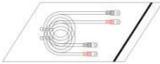
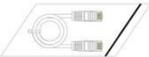
Port definitions	RJ45 Pin	Function
	1	RS485-B
	2	RS485-A
	3	GND
	4	CAN-H
	5	CAN-L
	6	NC
	7	RS485-A
	8	RS485-B

1.2.4.2 RS232 to PC

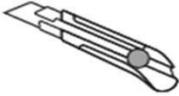
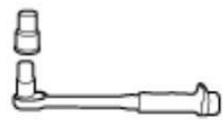
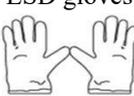
Port definitions	RJ45 Pin	Function
	1	RS232-TX
	2	GND
	3	RS232-RX
	4	NC
	5	NC
	6	NC
	7	NC
	8	NC

❧ Installation Guide

❧,1 Checking Deliverables

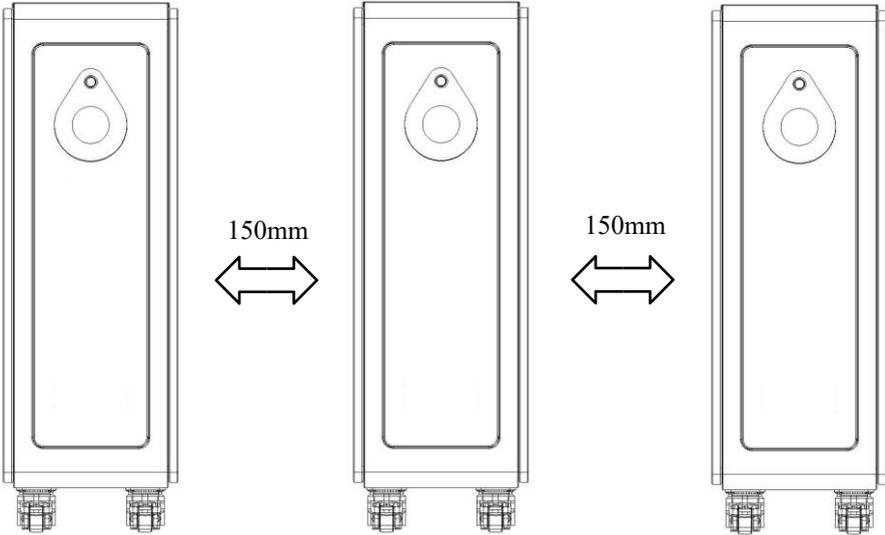
NO.	Pictures	Quantity	Description
1		1 pc	Battery
2		2 pcs	Expansion Bolt
3		1 pair	Power cable
4		1 pc	Comm cable
5		1 pc	Manual
6		1 pc	Cover
7		2 pcs	Cover bolt

ॡ,ॡ **Tools**

Tools			
Installation	Knife 	Measuring tape 	Socket wrench  (10/16mm)
	Hammer 	Cross Screwdriver 	Hammer drill 
Protection	ESD gloves 	Safety goggles 	Safety Shoes 

۲,۳ Installation Instructions

Minimum mounting distance requirement:

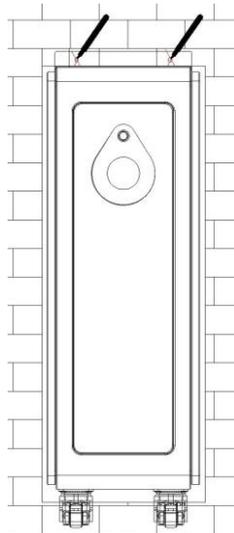


2.3.1 Installation Step

Step 1

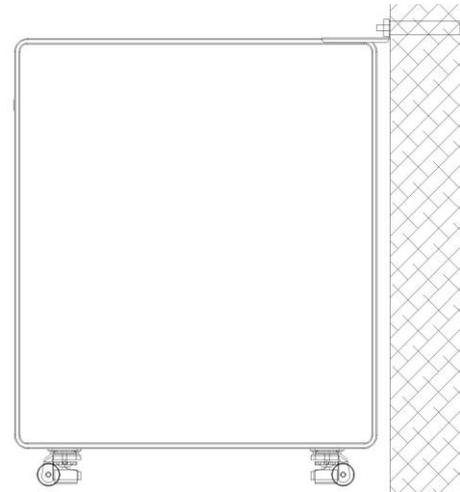
place ATTS-512560 on the floor, close to wall.

Determine hole position using marker



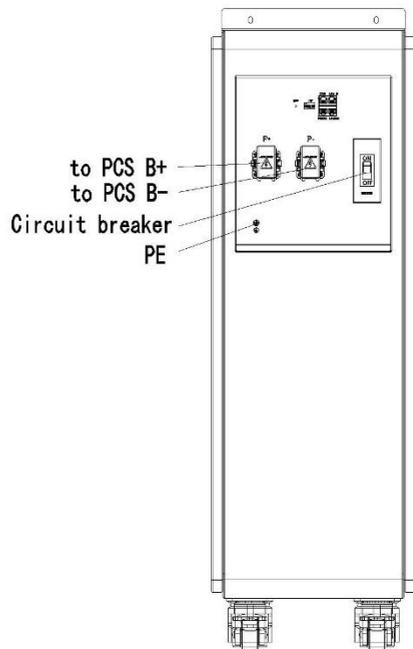
Step 2

drill hole on the wall, fix wall connector using expansion bolt



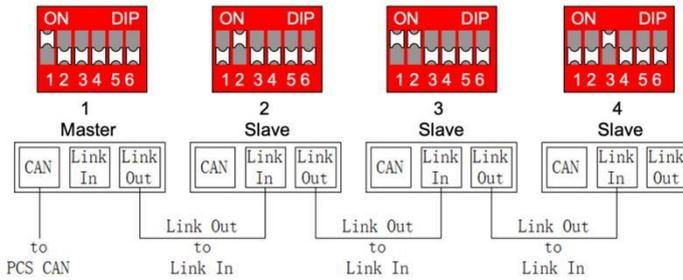
Step 3

Connect PE cable & power cable.



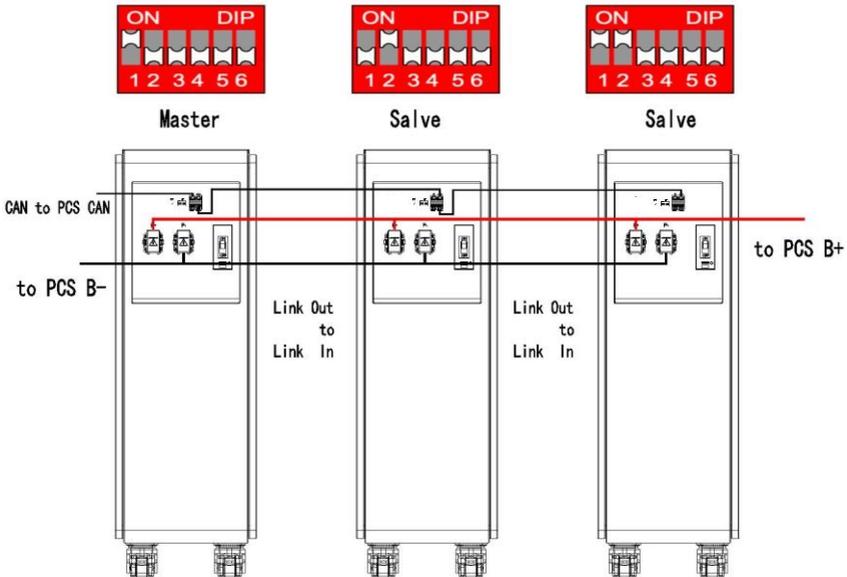
Step 4

Connect communication cable. Wire all cables thru rubber grommet.



Step 5

Refer to the following diagram when multiple batteries are connected in parallel:



✦ Technical Specifications

Basic Project		Parameter
Nominal Voltage		51.2V
Nominal Capacity		560 Ah
Nominal Energy		28.6 kWh
Charge Voltage		56.16V
Charge Current		150A
Discharge Voltage Range		45.6V~56.16V
Discharge Current		200A
Short Circuit Current		540 A
Communication Mode		CAN/RS485
Working Temperature	Charge	0°C~55°C
	Discharge	-20°C~55°C
Storage Temperature	Short Term (within 1 month)	-10°C~45°C
	Long Term (within 1 year)	0°C~35°C
Storage Humidity		<95% RH
Cell Type		LiFePO ₄ , Lithium Iron Phosphate
Size		H900*W800*D325(mm)
Weight		240 KG
IP Level		IP20
Cycle life		6000 Cycles @ 80% DOD/25°C/0.5C, 60% EOL

㉔ Maintenance

㉔.1 Recharge Requirements During Storage

Batteries should be stored in temperature between $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$, and recharged regularly according to the following table with 0.2C (112A) current to 50% SOC after long time storage.

Recharge requirement during storage

Storage Temperature	Storage Relative Humidity	Storage Time	SOC
Below -10°C	/	Not Allowed	/
$-10 \sim 0^{\circ}\text{C}$	5%~70%	≤ 1 months	$30\% \leq \text{SOC} \leq 70\%$
$0 \sim 20^{\circ}\text{C}$	5%~70%	≤ 12 months	$30\% \leq \text{SOC} \leq 70\%$
$20 \sim 30^{\circ}\text{C}$	5%~70%	≤ 6 months	$30\% \leq \text{SOC} \leq 70\%$
$30 \sim 40^{\circ}\text{C}$	5%~70%	≤ 1 months	$30\% \leq \text{SOC} \leq 70\%$
Above 40°C	/	Not Allowed	/

㉔.2 Recharge Requirements When Over Discharged

Please recharge over discharged (90% DOD) batteries according to the following table, otherwise over discharged battery will be damaged.

Recharge requirement when battery is over discharged

Storage Temperature	Storage Time	Note
$-10 \sim 20^{\circ}\text{C}$	≤ 10 days	Battery disconnected from PCS
$20 \sim 40^{\circ}\text{C}$	≤ 7 days	
$-10 \sim 40^{\circ}\text{C}$	< 12 hours	Battery connected to PCS

Attention: Disposal of batteries should follow local regulations.

USER MANUAL

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